

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2004/003126

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 G06F 17/30**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F17/00 G06F 19/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and application for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKIPASS "WEB, URL, ADDRESS, BOOK-MARK"

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 2001-76731 A (JANG, JUN SEOK, et al.) 16 AUGUST 2001	1, 2, 24
Y	SEE THE WHOLE DOCUMENT	9-12, 16, 18-23, 25-27
X	KR 2000-66913 A (KIM, JOUNG SU, et al.) 15 NOVEMBER 2000	1, 2, 24
Y	SEE THE WHOLE DOCUMENT	9-12, 16, 18-23, 25-27
Y	WO 99/39280 A2 (EASYNET ACCESS INC) 5 AUGUST 1999	1, 2, 9-12, 16, 18-27
	SEE THE WHOLE DOCUMENT	
A	WO 96/23265 A1 (BRITISH TELECOMMUNICATIONS PUBLIC LTD., CO.) 1 AUGUST 1996	1, 2, 9-12, 16, 18-27
	SEE THE WHOLE DOCUMENT	

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent but published on or after the international filing date
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&"	document member of the same patent family

Date of the actual completion of the international search

15 APRIL 2005 (15.04.2005)

Date of mailing of the international search report

**19 APRIL 2005 (19.04.2005)**

Name and mailing address of the ISA/KR

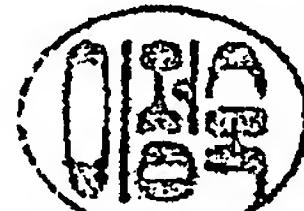
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**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.: 3-8, 13-15, 17, 28-31 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

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## Information on patent family members

International application No.

PCT/KR2004/003126

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 2001-76731 A	16/08/2001	NONE	
KR 2000-66913 A	05/10/2000	NONE	
WO 99/39280 A2	05/08/1999	CA2319750 A1 CN1114168C	05/08/1999 28/03/2001
WO 96/23265 A1	01/08/1996	US 6289337 B1 EP 0953920 A2	11/09/2001 03/11/1999

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